Table 8.03b
Value of Runoff Coefficient
(C) for Rational Formula

Land Use	C	Land Use	С
Business:		Lawns:	
Downtown areas	0.70-0.95	Sandy soil, flat, 2%	0.05-0.10
Neighborhood areas	0.50-0.70	Sandy soil, ave.,	0.10-0.15
	•	2-7%	0.15-0.20
Residential:	0000000	Sandy soil, steep,	0.13-0.17
Single-family areas	0.30-0.50	7%	0.18-0.22
Multi units, detached	0.40-0.60	Heavy soil, flat, 2%	0.25-0.35
¹ Multi units, Attached	0.60-0.75	Heavy soil, ave.,	
Suburban	0.25-0.40	2-7%	
Industrial:		Heavy soil, steep,	0.00.000
Light areas	0.50-0.80	7%	0.30-0.60
Heavy areas	0.60-0.90	Ambauthural lands	0.20-0.50
	0.00 0.00	Agricultural land: Bare packed soil	0.30-0.60
Parks, cemeteries	0.10-0.25	Smooth .	0.30-0.60
		Rough	0.20-0.30
Playgrounds	0.20-0.35	Cultivated rows	0.20-0.40
Railroad yard areas	0.20-0.40	Heavy soil no crop	0.10-0.25
Trainoud Juid droub	0.20 0.40	Heavy soil with	0.15-0.45
Unimproved areas	0.10-0.30	crop	0.05-0.25
	•	Sandy soil no crop	0.05-0.25
Streets:		Sandy soil with	3,33 0,23
Asphalt	0.70-0.95	crop	0.10-0.25
Concrete	0.80-0.95	Pasture	
Brick	0.70-0.85	Heavy soil	0.15-0.45
Drives and walks	0.75-0.85	Sandy soil	0.05-0.25
Diffoo and Walls	0.70-0.00	Woodlands	0.05-0.25
Roofs	0.75-0.85	•	
		The second secon	

NOTE: The designer must use judgement to select the appropriate C value within the range for the appropriate land use. Generally, larger areas with permeable soils, flat slopes, and dense vegetation should have lowest C values. Smaller areas with slowly permeable soils, steep slopes, and sparse vegetation should be assigned highest C values.

'Source: American Society of Civil Engineers

SAMPLE VALUES FOR THE RATIONAL METHOD